Study of the phase diagram and the ... \$/576/61/000/000/020/020 E021/E120

 α NiS with a millerite-type structure, behave below 300 $^{\circ}$ C as semi-metals, but β' CoS with 55.22 at.% S and β' NiSe with 52.3 at.% Se have a tendency to semiconducting type of conductivity. The phases α Ni3S2, α Ni3Se2, Co9S8, mixtures of α Ni3S2 with Ni, α Ni3Se2 with Ni an NiSe₂ Ni6Ses, CogS8 with Co, have metallic conductivity. and The ratio is close to the ideal nickel-arsenide structure in the case of β NiS (c/a = 1.555) but the tendency to semiconducting properties is greater for β' CoS (c/a = 1.534) and β' NiSe (c/a = 1.463). This is a deviation from the prediction by W.B. Pearson (Ref. 20: Canadian J. of Physics, 1957, v. 35, 8, 886) that phases with nickel-arsenide structure would have semiconducting type of electrical conductivity. Detailed information is given on the limits of homogeneity and phase structure of Ni-S, Ni-Se and Co-S systems and also the interatomic distances in sulphides and selenides of nickel and cobalt There are 2 figures, 2 tables and 32 references: 7 Soviet-bloc and Co non-Soviet-bloc.

Card 3/4

KUZNETSOV, V.G.; YELISEYEV, A.A.

X-ray examination for determining the boundaries of homogeneity and the nature of the β -NiS phase. Zhur.strukt.khim. 2 no.5: 578-584 S-0 '61. (MIRA 14:11)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

(Nickel alloys)

(Grystal lattices)

MEDVEDEVA, Z.S.; KLOCHKO, M.A.; KUZNETSOV, V.G.; ANDREYEVA, S.N.

Phase diagram of the system palladium-tellurium. Zhur.
neorg. khim. 6 no.7:1737-1739 Jl '61. (MIRA 14:7)
(Palladium) (Tellurium)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5"

计模式事员的解释语句

DRUZHININ, I.G.; IMANAKUNOV, B.; KUZNETSOV, V.G.

Study of some physicochemical properties of nickel astrakhanite.

Zhur.neorg.khim. 6 no.11:2576-2581 '61. (MIRA 14:10).

(Nickel ores) (Bloedite)

DRUZHININ, I.G.; IMANAKUNOV, B.; KUZNETSOV, V.G.

Solubility in the quaternary system consisting of nickel, sodium, aluminum sulfates, and water. Zhur.neorg.khim. 6 no.11:2582(Systems (Chemistry)) (Solubility) (Salts)

RODE, Ye.Ya.; GOLOVLEVA, Z.S.; KUZNETSOV, V.G.; KOZ'MIN, P.A.

Physicochemical study of hydrated peroxide compounds of uranium.

Zhur.neorg.khim. 6 no.12:2635-2648 D •61. (MIRA 14:12)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova, AN SSSR.

(Uranium oxide)

KUZNETSOV, V.G.; IMANAKUNOV, B.

X-ray diffraction study of solid phases in ternary aqueous systems consisting of nickel, sodium, and aluminum mulfates at 25-65 C. Zhur.strukt.khim. 3 no.1:51-63 Ja-F 162. (MIRA 15:3)

1. Institut obshchey i neorganicheskey khimii imeni N.S.Kurnakova AN SSSR i Institut khimii AN Kirgizskoy SSR. (Systems (Chemistry)) (I rays—Diffraction)

TSAREGORODISEV, P.P.; CARASIMOV, Ya.P., master; BORMASHENKO, R.I.;
LOSKUTNIKOV, V.D., stalevar; KUZMETSOV, V.C., stalevar;
SAFRONOV, V.F., stalevar; SUVOROV, K.R., stalevar

"Steelmaker's manual" by M.I. Panfilov. Reviewed by P.P.
TSaregorodtsev and others. Metallurg 7 no.5:39 My '62.

(MIRA 15:5)

1. Petrovsk-Zabaykal'skiy metallurgicheskiy zavod.
2. Nachal'nik martenovskogo tsekha Petrovsk-Zabaykal'skogo metallurgicheskogo zavoda (for TSaregorodtsev).

(Open-hearth process—Handbooks, manuals, etc.)

(Panfilov, M.I.)

S/078/62/007/005/003/014 B101/B110

AUTHORS:

Kuznetsov, V. G., Tokareva, S. A., Dobrolyubova, M. S.

TITLE:

X-ray diffraction analysis of sodium ozonide NaO3

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 5, 1962, 967 - 970

TEXT: X-ray powder patterns were taken for determining the crystallization form of NaO₃. NaO₃ was synthesized by reaction of O₃ with anhydrous NaOH at -80°C and subsequent extraction with liquid NH₃ which was removed in vacuo at -50°C. The resulting product (red crystals) contained 90-92% at nitrogen temperature by an YPC-55 (URS-55) camera. The x-ray patterns were taken of NaNO₃, (NH₄)NO₃, NaOH, NaOH·H₂O, and NaO₂ were taken for comparison.

NaO₃ was found to contain small amounts of NaOH and NaO₂. The indication of the x-ray patterns showed good agreement with the interplanar spacings

KUZNETSOV, V. G

X-ray investigation of the phase diagram of the system Bi₂S₃-Sb₂S₃. V. G. Kuznetzov, A. S. Kanishcheva.

Concerning the crystal structure and some properties of solid solutions in the ternary reciprocal system Bi₂Se₃ + Sb₂Te₃ \rightarrow Bi₂Te₃ + Sb₂Se₃.

K. Ralkina, V. G. Kuznetsov.

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

KUZNETSOV, V. G.; KOZ'MIN, P. A.

"Kristallicheskaya struktura (C5H5NH)HRe^{II}Cl₄ i (C5H5NH)HRe^{II}BR₄."

report submitted for 6th Gen Assembly, Intl Union of Crystallography, Rome,

Inst obshchey i neorganicheskoy khimii im N. S. Kurnakova, AN SSSR, Moskva.

KUZNETSOV, V.G.; KOZ'MIN, P.A.

Structure of (PyH) HReCl₄. Zhur.strukt.khim. 4 no.1:55-62 Ja-P (MIRA 16:2)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

(Rhenium compounds) (L-ray crystallography)

AD Nr. 994-1 20 June

PHASE DIAGRAMS AND STRUCTURES OF ALLOYS IN THE SYSTEMS

Bi₂Se₃ — Sb₂Te₃ AND Bi₂Te₃ — Sb₂Se₃ (USSR)

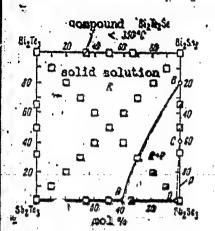
Kuznetsov, V. G., and K. K. Palkina. Zhurnal neorganicheskoy khimii, v. 8, s/078/63/000/005/012/021

The systems Bi₂So₃ — Sb₂Te₃ and Bi₂Te₃ — Sb₂Se₃ have been studied by thermal and x-ray analysis at the Institute of General and Inorganic Chemistry imeni N. S. Kurnakov, Academy of Sciences USSR.

AID Nr. 994-1 20 June

PHASE DIAGRAMS AND STRUCTURES OF ALLOYS [Cont'd]

8/078/63/008/005/012/021



The results of the study have made it possible to plot phase diagrams and to establish the structures of alloys in the above systems. The system Bi₂Se₃ — Sb₂Te₃ forms completely miscible substitutional solid solutions with a rhombohedral multiple-layer structure of the tetradymite type. The liquidus and solidus are smooth, with a minimum at 595°C, 85 mol% Sb₂Te₃. The system Bi₂Te₃ — Sb₂Se₃ forms partially miscible solid solutions. Solutions based on Bi₂Te₃ also have a multiple-layer structure of the tetradymite type and a one-phase region from 0 to 70 mol% Sb₂Se₃. Solutions based on Sb₂Se₃ have a rhombic nucleus, a chain structure of the Sb₂S₃ type, and a single-

phase region from about 97 to 100 mol% Sb₂Se₃. The region from about 70 to 93 mol% Sb₂Se₃, contains a mixture of the rhombohedral and rhombic solid solutions and a cutectic at 600°C, 86 mol% Sb₂Se₃. The phase diagram of the system Bi₂Se₃ + Sb₂Te₃ = Bi₂Te₃ + Sb₂Se₃ at 500°C is given in the illustration.

[BAO]

Card 2/2

KULIKOVSKIY, B.N.; MIKHAYLOV, Yu.N.; KUZNETSOV, V.G.

X-ray diffraction study of the oxidation products of tellurium. Zhur. neorg. khim. 8 no.6:1338-1341 Je 63. (MIRA 16:6)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova

(Tellurium) (Oxidation) (X rays—Diffraction)

YANAT'YEVA, O.K.; ORLOVA, V.T.; KUZNETSOV, V.G.

Nature of the glaserite phase in the system K2SO₄ - Na₂SO₄ - H₂O₆.

Zhur. neorg. khim. 8 no.7:1756-1765 J1 63.

(MIRA 16:7)

(Alkali metal sulfates) (Aphthitalite)

EWP(a)/ENT(m)/BDS AFFTC/ASD L 17743-63 RDW/JD \$/0078/63/008/009/2132/2135 ACCESSION NR: AP 3006 805 AUTHOR: loffe, A. V.; Kuznetsov, V. G.; Palkina, K. K. TITLE: (Thermal conductivity and thermoelegaric figure of merit (Z) of solid solutions in the bismuth selenide antimony telluride and bismuth telluride-antimony selenide systems SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 9, 1963, 2132-2135 TOPIC TAGS: bismuth selenide, antimony telluride, bismuth tellu ride, antimony selenide, solid solution, alloy, semiconductor, semiconductor system, thermoelectric material, total thermal conductivity, electron, lattice, thermal conductivity, electrical conductivity, thermoelectric power, thermoelectric figure of merit, bismuth selenide antimony telluride system, bismuth telluride antimony selenide system ABSTRACT: Total thermal conductivity (), electrical conductivity (a), and thermoelectric power (a) have been measured at room temperature for the entire composition range of solid solutions in

1 17743-63

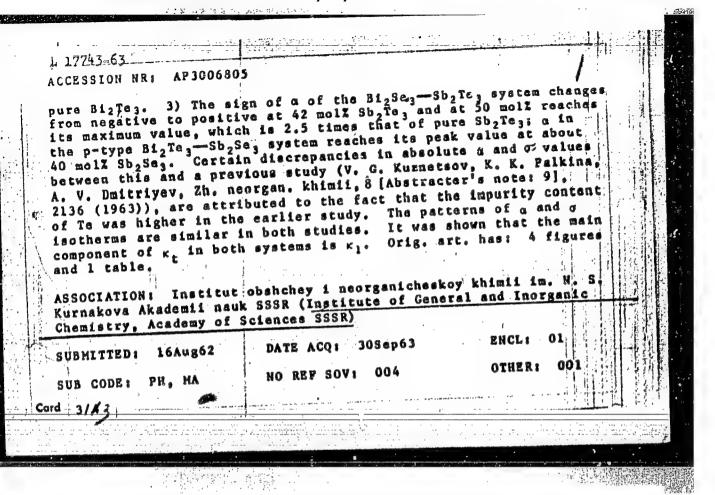
ACCESSION NR: AP3006805

the Bi_2Se_3 — Sb_2Te_3 and Bi_2Te_3 — Sb_2Se_3 systems. The calculated values of the thermoelectric figure of merit (Z) were correlated with composition. Data for the systems studied are not available in the literature. Alloys were prepared by melting mixtures of the high-purity elements in the required proportions in evacuated sealed quartz ampuls. The alloys were vacuum annealed that pressed into specimens, and quenched from 500C. All measurements were conducted with the same specimen of each alloy. Thermal conductivity by electrons (κ_{el}), was calculated from the measured σ_{el} and thermal conductivity by lattice vibrations (κ_{el}) as the difference. Isotherms of σ_{el} , σ_{el} , and Z for solid solutions in both systems studied are shown in Figs. 1 and 2 of the Enclosure. The following conclusions are reached. 1) Diffuse minima of κ_{el} and σ_{el} characteristic of metals, exist in both systems at a 1/1 molar ratio of the components. 2) The peak Z values (at 33.33 and 66.66 mol% σ_{el} in the σ_{el} calculated for pure σ_{el} system are 1.6 and 1.3 times the Z value for pure σ_{el} system is 7 times the Z value for

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AUTHOR: Kuznetsov, V. G.; Palkins, K. K.; Dmitriyev, A. V.	60
AUTHOR: Kuznetsov, V. U.; Italian Alexander of	•
TITLE: Electrical conductivity and thermoelectric power of	cimony
antimony tollurius and	27
anima colla solutions a	
SOURCE! Zhurnal neorganicheskoy khimii. v. 8, no. 9, 1963,	2136-
SOURCE! (Zhurnal neorganichesto)	
2139	
TOPIC TAGS: antimony bismuth selenide telluride ternary sy	timony
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ABSTRACT: Variations in electrical conductivity (0) have been electric power (a) with solid-solution composition have been electric power (a) with solid-solution composition have been in the Bi ₂ Se ₃ —Sb ₂ Te ₃ and Bi ₂ Te ₃ —Sb ₂ Se ₃ ternary system. I	position
in the Bi2Se3-Sb2Te3 and Bi21e3-Sb2Se3 ternary system. I square representing the SbxBi2-xTe3-ySey ternary system.	ata for
square representing the South 2-x - 3-y	
Card 1/3	
Colo, 1/3	
	· · · · · SEP IN SELECTION I

ACCESSION NR: AP3006806

the sections are not available in the literature, but phase diamenates away been established (V. G. Kuznetsov, K. K. Palkina, Zh. grams have been established (V. G. Kuznetsov, K. K. Palkina, Zh. neorgan, khimii, 8, 1204 (1963)). Measurements of and a were carried out at room temperature on hot-pressed specimens prepared by melting mixtures of the high-purity/compounds in evacuated by melting mixtures of the http-purity/compounds in evacuated by melting mixtures of the http-purity/compounds in evacuated by melting mixtures of the http-purity/compounds in order annealed and water quenched. It was shown that 1) minimum of corannealed and water quenched. It was shown that 1) minimum of corannealed and water quenched. It was shown that 1) minimum of corannealed and water quenched. It was shown that 1) minimum of corannealed and water quenched. It was shown that 1) minimum of corannealed and vater quenched. It was shown that 1) minimum of corannealed and segmentation in the solid solid oution; with an increase in Sb_2Se_3 in the Bi_2Se_3—Sb_2Te_3 system will and 2) the sign of a of Bl_2Se_3 in the Bi_2Se_3—Sb_2Te_3 system shows a maximum at 50 molZ Sb_2Se_3. In the Bi_2Te_3—Sb_2Se_3 system shows a maximum at 50 molZ Sb_2Se_3. In the 18—227C ranne, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anximum at 50 molZ Sb_2Se_3. In the 18—227C range, a metallic—anxi

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ACCESSION NR: AP30068	of art. has: 1 table, and 3 figures.	
ASSOCIATION: Institut Kurnakova AN SSSR (Ins	obshchey i neorganicheskoy khimii titute of General and Inorganic Cher	La. N. S.
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Cord 3/3		

RODE, Ye.Ya.; GOLCVLEVA, Z.S.; KUZNETSOV, V.G.; KOZ'MIN, P.A.

Hydrated compounds in the system uranium trioxide - water. Zhur. neorg. khim. 8 no.12:2751-2772 D '63. (MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

ACCESSION NR: AP4019271

8/0192/64/005/001/0142/0144

AUTHORS: Kusnetsov, V.G.; Bekulina, V.M.; Tokareva, S.A.; Zimina, A.X.

TITLE: X ray study of sodium ozonide, NaO sub 3

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 1, 1964, 142-144

TOPIC TAGS: x ray study, sodium ozonide, symmetry, cell dimension, interplaner distance, volume centered tetragonal lattice, sodium, sodium compound

ABSTRACT: Sodium ozonide was obtained by reaction of ozone with dehydrated sodium hydroxide at -80°C for 3 hrs. with subsequent extraction from liquid ammonia. The solvent was removed in a vacuum at -50°C. The crystallic product contained 85% sodium ozonide. Specimens of sodium ozonide synthesized at a temperature interval of 0 to 5°C and separated by subsequent extraction with liquid ammonia were studied simultaneously. From X-ray photographs 1t was

Card 1/2

ACCESSION NR: AP4019271

possible to measure more lines and obtain more accurate values, and also to determine the symmetry and cell dimensions. Indexing of x-ray photographs by means of Helly's curves provided better agreement of measured and calculated interplaner distances for a volume centered tetragonal lattice with the ratio c/a = 0.66 and with periods a = 11.65 and c = 7.66 Å. Deviation is observed for the first diffuse line with d = 3.927 Å, which is explained by a large error of measurement for this line. The density of sodium ozonide found by the hydrostatic suspension method, is 1.6 g./cm^3 . The number of molecules in the unit cell is 14. As a result of analysis of extinction and of value N = 14, spatial group I of 4ttt was tentatively selected. Orig. art. has: 1 table, 1 figure.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR (Institute of General and Inorganic Chemistry AN SSSR)

SUBMITTED: 19Jun63

DATE ACQ: 27Mar64

ENCL: 00

SUB CODE: CH

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OTHER: 003

Card 2/2

YELISEYEV, A.A.; KUZNETSOV, V.G.; YAREMBASH, Ye.I.

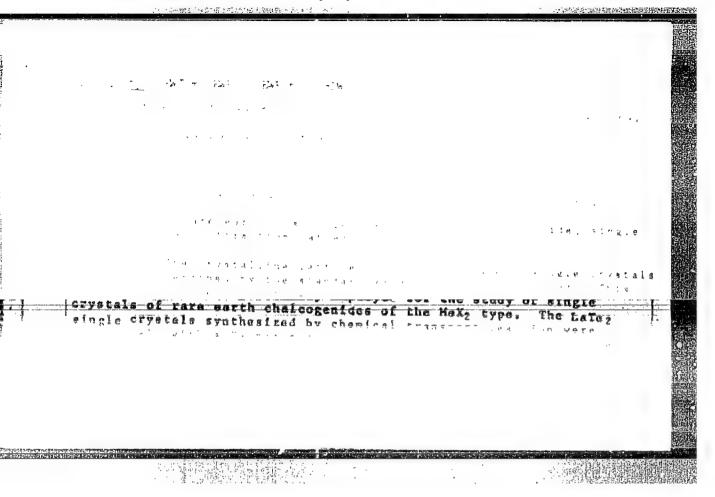
X-ray diffraction study of lanthanum telluride. Zhur. strukt. khim. 5 no.4:641-642 Ag '64. (MIRA 18:3)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN ${\sf SSSR}_{\:\raisebox{3.5pt}{\text{\circle*{1.5}}}}$

YLISEYEV, A.A.; YAREMBASH, Ye.I.; KUZNETSOV, V.G.; VIGILEVA, Ye.S.; RESHCHIKOVA, A.A.; ANTONOVA, L.I.

Lanthanum tellurides. Zhur.neorg.khim. 9 no.4:876-882 Ap '64. (MIRA 17:4)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.



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ACCESSION NR: AP4040728

AUTHOR: Kuznetsov, V. G.; Petushkova, S.M.; Tananayev, I.V.

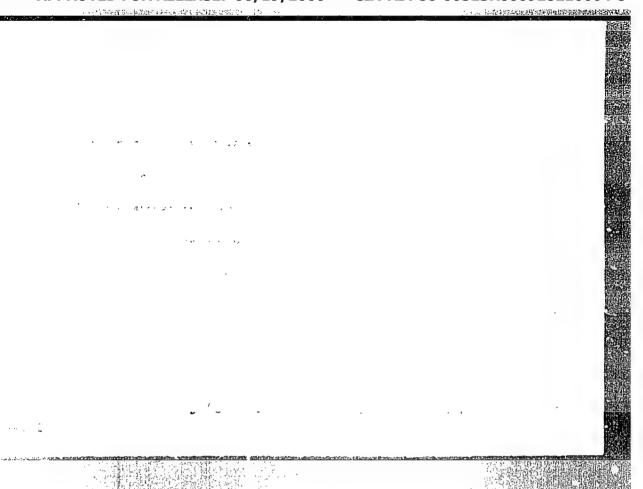
TITLE: Radiographic investigation of gadolinium phosphates

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 3, 1964, 397-403

TOPIC TAGS: gadolinium phosphate radiography, gadolinium phosphate, powder radiography

ABSTRACT: Using methods of powder radiography, solid phases formed at 250 in systems GdOl3-H-PO4-H-O and GdOl3-Na3PO4-H-O were in-vestigated. The article contains tabulated data of radiographic vestigated. The article contains tabulated data of radiographic analysis covering the obtained products: $9GdPO_4 \cdot Gd(OH)_3 \cdot 27H_2O$; $GdPO_4 \cdot H_2O$; $4GdPO_4 \cdot Na_2PO_4 \cdot 12H_2O$, as well as the products of their heat treatment: $GdPO_4 \cdot GdPO_4 \cdot O \cdot 35H_2O$; $18GdPO_4 \cdot Gd_2O_3$ and $4GdPO_4 \cdot Na_2PO_4 \cdot GdPO_4 \cdot O \cdot 35H_2O$; $18GdPO_4 \cdot Gd_2O_3$ and $4GdPO_4 \cdot Na_2PO_4 \cdot O \cdot 18GdPO_4 \cdot Gd_2O_3$ and $4GdPO_4 \cdot Na_2PO_4 \cdot O \cdot 18GdPO_4 \cdot Gd_2O_3$ and $4GdPO_4 \cdot Na_2PO_4 \cdot O \cdot O \cdot O$; $18GdPO_4 \cdot Gd_2O_3$ and $18GdPO_4 \cdot O \cdot O \cdot O$; $18GdPO_4 \cdot Gd_2O_3$ and $18GdPO_4 \cdot O \cdot O \cdot O$; $18GdPO_4 \cdot O \cdot O$; 18GdPOcerium and neodymium phosphates, and probably monoclinal isostructural monazite. The results obtained may serve for the identifica-Orig. art. has: 6 tables. tion of the compounds.

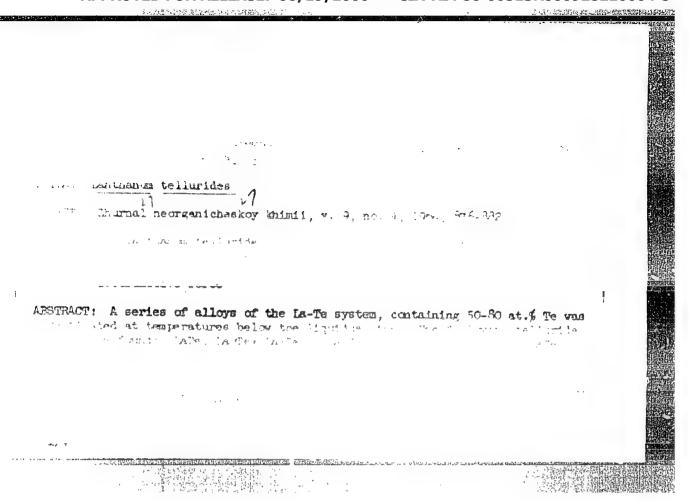
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ASSOCIATION: Institut obshohey i neorganicheskoy khimii im. N. S. Kurnakova, AN SSSR (Institute of General and Inorganic Chemistry, AN SSSR) SUBMITTED: 21Jun63 ENCL: 00 SUB CODE: IC NR REF SOV: 001 OTHER: 006	ACCESSION NR: AP4040728	-	
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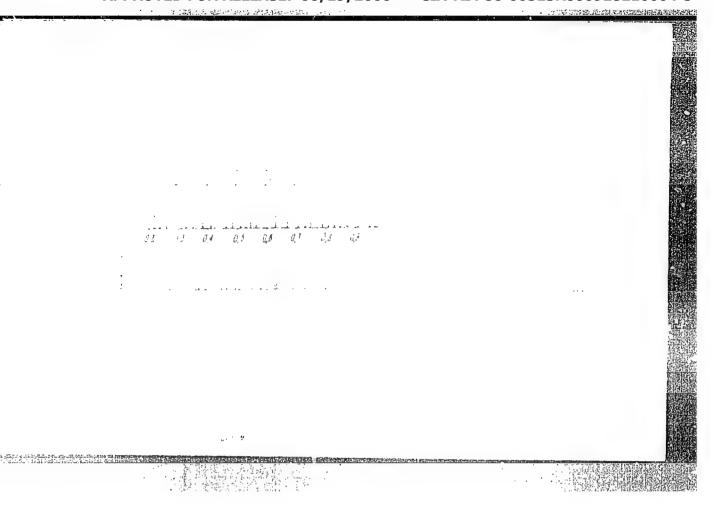
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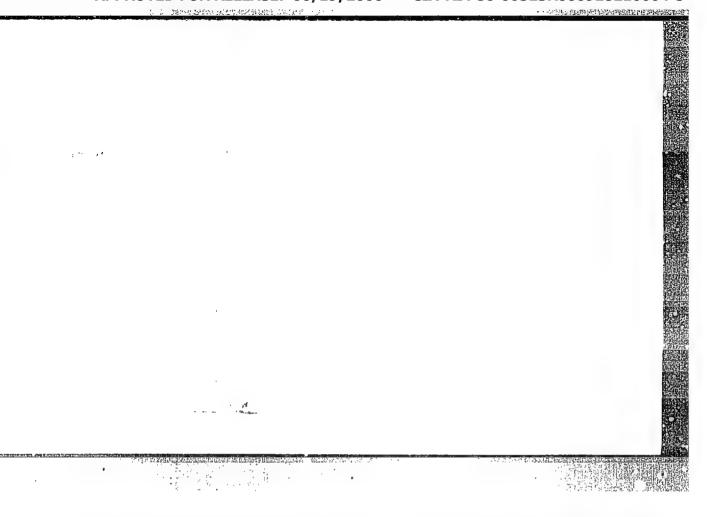
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KUZNETSOV, V.G.; LI CHI-FA [Li Ch'ih-fa]

X-ray diffraction examination of the system SnS - PbS. Zhur. neorg. khim. 9 no.5:1201-1206 My '64.

(MIRA 17:9)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5

KUZNETSOV, V.G.; VASIL'YEVA, V.P.; TANANAYEV, I.V.

X-ray examination of lanthanum phosphates. Zhur. neorg. khim.
9 no.9:2053-2059 S '64.

(MINA 17:11)

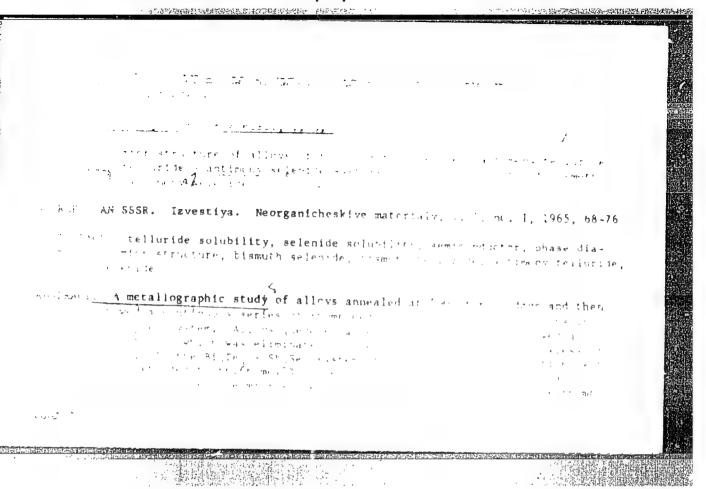
RUZHETGOV, V.G.; PETUSHKOVA, S.F.; TAR NAMEY, L.V.

X-ray diffraction study of gadolinium phosphates. Zhur. strukt. lhim. 5 no.3:397-403 My-Je '64. (MIRA 18:7)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR.

"APPROVED FOR RELEASE: 06/19/2000

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「大きなはまるをはは最後の表現では、他のないできます。

*** F NR: AP5007609

hedral solid solution with the Sb₂Se₃ base at 5000 was 98.1 mol.7 Sb₂Se₃, as shown rig, art, has 5 figures and 6 targes.

The Institut obshchey i neorganicheskuv ki milite. No like teakev, star SSSR (General and inorganic chemiate) i general accompanis chemiate.

SUBMITTED: 15Ju163

ENCL: 00

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NO REF SOV: 007

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OTHER: 000

KUZNETSOV, V.G.; SOKOLOVA, M.A.; PALKINA, K.K.; POPOVA, Z.V.

Cobalt-sulfur system. Izv. AN SSSR. Neorg. mat. 1 no.5:675-689 My 165. (MIRA 18:10)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova AN SSSR.

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AUTHOR: Y	eliseyev, A. A. Kuznetsov, V. G.
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YELISEYEV, A.A.; YAREMBASH, Ye.I.; KUZNETSOV, V.G.; ANTCHOVA, I.I.; STOYANTSEVA, Z.P.

X-ray diffraction examination of lanthanum tellurides. Izv. AN SSSR. Neorg.mat. 1 no.7:1027-1038 J1 '65. (MIRA 18:9)

l. Institut obshchey i neorganicheskoy khimii imeni ${\rm N.S.Kurrakova}$ AN SSSR.

ELLERT, G.V.; TSAPKIN, V.V.; M. KHAYLOV, Yu.N.; KUZNETSOV, V.G.

Chloridobromide complex compounds of tetracido-type uranyl. Zhur. neorg. khim. 10 no.7:1572-1580 J1 '65. (MIRA 18:8)

PALKINA, K.K.: KUZHUTSOV V.C.

X-rays diffraction and thermographic investigation of alloys of the system Sb2Te₁ - Sb₂-Se₃. Tov. AN SD3P. Nearg. mat. 1 no.12:2158-2164 D 465. (NEW 18:12)

%. Institut obshchey i neorganicheskoy khimil im. N.Y. Euraskova AN SSSR. Submitted June 10, 1965.

LAPINSKAYA, T.A.; KUZNETSOV, V.G.

Correlation of the zone of the Kama-Kincl' depression with the tectonics of the crystalline basement. Dokl. AN SSSR 164 no.5:1125-1128 0 '65. (MIRA 18:10)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti. Submitted April 13, 1965.

ACC NR: AP7000138

SOURCE CODE: UR/0177/66/000/011/0050/0054

AUTHOR: Derevyanko, Ye. A. (Lieutenant Colonel of Administrative Services; Candidate of Biological Sciences); Kuznetsov, V. G. (Major Medical Services)

ORG: None

TITLE: Experimental study of spatial illusion during flight

SOURCE: Voyenno-meditainakiy zhurnal, no. 11, 1966, 50-54

TOPIC TAGS: medical experiment, space biologic experiment, human ailment, human physiology, jet aircraft, research aircraft, transport aircraft

ABSTRACT: Spatial illusion is one of the factors complicating the pilot's activities when flying on instruments. The causes, conditions and mechanisms which give rise to this phenomenon are of great theoretical and practical interest since only by understanding them can preventive measures be taken. B. A. Yakubov and A. A. Vorona are cited as sources for descriptions of the nature and symptoms of spatial illusions. But it is acknowledged that experimental data on the concrete circumstances in which these illusions arise, other than the word of pilots themselves, is lacking. Present research will only make it possible to establish some of the sensations of the illusions, and indicate some paths to be followed during further experimental study of their causes. Research has been conducted using specially

Card 1/2

UDC: 616.89-008.42-02:629.13

ACC NR: AP7000138

equipped recording devices installed in TU-104 aircraft. The K-12-21 oscillograph, used in conjunction with MP-69, TaGV, and DUS-3 sensors records physical parameters for overload, bank, and angular speed of the aircraft heading into a bank and emerging from it, and glide. Eleven command pilots and co-pilots, as well as six non-flying personnel participated in the research. The manner in which the research was conducted is described. The results obtained indicated that distinction could be made between three types of illusions: prolonged bank, reverse bank, and cyclical illusions, all of which are characterized by descriptions of the sensations experienced. It is concluded that, apart from internal factors involving the central nervous system, acceleration is a major factor in causing illusions. But the analysis of the indications of the three types notes that they were registered in the absence of optical information on spatial conditions. Orig. art. has: 3 figures.

SUB CODE: 22, 01, 22/ SUBM DATE: none

Card 2/2

L 16468-66 EWT(m)/ETC(f)/EPF(n)-2/EWG(m) DM ACC NR: AP6005540 (N) SOURCE CODE: UR/0089/66/020/001/0075/0076

AUTHOR: Veselovskiy, L. N.; Kuznetsov, V. G.; Sakovich, V. A.

44 B

ORG: none

TITLE: Optimum ratio of neutron- and gamma-radiation doses behind the shield of a

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 75-76

TOPIC TAGS: radiation shielding, gamma radiation, neutron radiation, nuclear engineering, reactor shielding

ABSTRACT: It is shown that slight deviations from equality between the surface areas of the light and heavy components in a lead-water shield may have a considerable effect on the ratio of neutron- and gamma-radiation doses for optimum thicknesses of the water and lead components. No definite ratio of neutron- and gamma-radiation doses can serve as a generalized optimizing test depending on specific structural considerations. Therefore other tests must be used for checking optimum shielding conditions. Orig. art. has: 5 formulas.

SUB CODE: 18/

SUBM DATE: 11Mar65/

ORIG REF: 002/

OTH REF: 002

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UDC: 621.039.58:539.125.5 + 539.122

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CIA-RDP86-00513R000928210004-5

ENT(m)/ETC(F)/ENG(m)/ENP(t)/ENP(b) IJP(c) RDW/JD 13565-66 ACC NR: AP6001233 SOURCE CODE: UR/0363/65/001/012/2158/2164 AUTHOR: Palkina, K. K.; Kuznetsov, V. G. ORG: Institute of General and Inorganic Chemistry im. N.S. Kurnakov, Academy of Sciences. SSSR (Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR) TITLE: X-ray diffraction and thermographic study of alloys of the Sb₂Te₃-Sb₂Se₃ system SOURCE: AN SSSR Izvestiya. Neorganicheskiye materialy, v. 1, no. 12, 1965. 2158-2164 TOPIC TAGS: solid solution, antimony alloy, tellurium alloy, selenium alloy, THERMAL ANALYSIS, PHASE DIAGRAM, ABSTRACT: The homogenized alloys were studied by differential thermal analysis with a Kurnakov pyrometer and by x-ray powder techniques. Because of the supercooling tendencies of the alloys, the thermal effects were recorded on heating curves. The eutoctic type of the phase diagram of the system with limited solid solutions was confirmed. The region of homogeneity of the solid solution based on Sb₂Te₃ is located between 0 and 53.5 mole % Sb₂Se₃ at 500C and between 0 and 52.5 mole % Sb₂Se₃ at 350C. The constants of the hexagonal Sb₂Te₃. lattice decrease with increasing SbaSe, content of the solid solution: a from 4.264 to 4.128 A, c from 30.42 to 29.52 Å. In the range from 46.5 to 97 mole % Sb₃Se₃ at 500C there exists a two-phase region consisting of solid solutions based on Sb2Se3 and Sb2Te3. Orig. art. has: 3 figures and 5 tables. SUB CODE: 11 / SUBM DATE: 10Jun65 / ORIG REF: 005

UDC: 546.86'24.1+546.86'23.1

MIKHAYLOV, YO.N.; KUZNETSOV, V.G.; KOVALEVA, Ye.S.

Crystalline structure of cesium tetrabromouranylate Cs₂[UO₂Br₄]. Zhur.strukt.khim. 6 no.5:787-788 S-0 '65.

(MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova AN SSSR. Submitted May 21, 1965.

L 7824-66 EWT(1)/EWP(e)/EPA(s)-2/EWT(m)/EWP(1)/EPA(w)-2/EWP(t)/EWP(b) IJP() ACC NR AP 5028101 SOURCE CODE: UR/0048/65/029/011/1982/1985 55 AUTHOR: Borodin, V.Z., Kuznetsov, V.G.; Lezgintseva, ORG: Rostov-on-the-Don State University (Rostovskiy-na-Donu Gosudarstvennyy TITLE: Dielectric and optical investigations of barium titanate single crystals. in the infralow frequency range Laport, Fourth All-Union Conference on Ferro electricity held at Rostov-on-the-Don 12-16 September 1964 SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v. 29 no. 11, 1965, 1982-1985 TOPIC TAGS: Ferroelectric crystal, barium titanate, dielectric constant, electric coercive force, electric domain structure, extreme low frequency. ABSTRACT: The polarization, effective dielectric constant, and coercive field of thin (0.02 to 0.2 mm) BaTiO₃ single crystal plates with different domain structures were measured at frequencies between 10⁻² and 10⁴ cycle/sec. The reversible dielectric constant was measured at a carrier frequency of 150 kilocycle/sec in the presence of a very low frequency bias field. In addition to this, the behavior under the influence of low frequency fields of single a-domains in the midst of o-domains was observed with a polarizing microscope. At frequencies below about 50 cycle/sec the effective dielectric constant as a function of the amplitude of the reasuring field showed a pronounced maximum at an amplitude in the vicinity Card 1/2

L 7824-66

ACC NR: AP 5028101

of 1 %/cm; the maximum delectric constant increased rapidly with decreasing frequency and the position of the maximum shifted slightly to lower amplitudes. The coercive field decreased gradually with decreasing frequency, reached a minimum at a frequency that depended on the amplitude of the applied field, and subsequently increased to the static value. The changes in thickness of a-domains were observed in 0.2 cycle/sec fields. At low amplitudes of the applied field the domains oscillated at the applied frequency, but at high amplitudes the domains escillated at twice the applied frequency. An analogous transition from fundamental to second harmonic domain oscillation was observed on decreasing the frequency while maintaining the amplitude constant. When oscillating at the second harmonic, the domains reached their greatest size when the applied field passed through the value of the coercive field. The relation between domain oscillation and other dielectric properties of the crystal is discussed briefly. The authors thank M.L.Sholokhovich(S) for providing the single crystals. Orig. art. has: 1 formula and 5 figures.

SUB CODE:

88. EM

SUBM DATE: 00/

ORIG.REF. 005 OTH REF: 002

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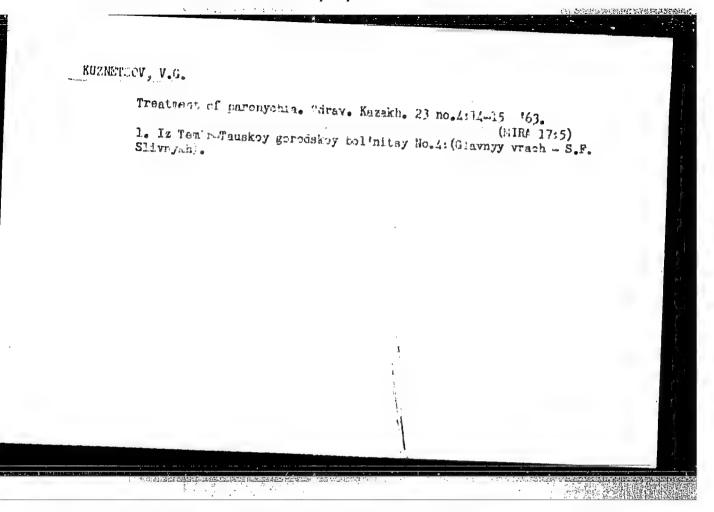
KUZNETSOV, V.G.

Case of leiomyoma of the corpus ventriculi. Vest. rent. i rad. 37 no.2:61-62 Mr-Ap '62. (MIRA 15:4)

1. Iz rentgenovskogo kabineta Shumerlinskoy rayonnoy bol'nitsy Chuvashskoy ASSR (glavnyy vrach A.N. Yefremov).

(STOMACH—TUMORS)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5



SOY/112-58-2-2337

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 90 (USSR)

AUTHOR: Kuznetsov, V. G.

TITLE: The Electrical Equipment of Diesel Locomotives (Elektrooborudovaniye teplovozov)

PERIODICAL: V sb.: Raboty M-va elektrotekha. prom-sti SSSR po mekhaniz. i avtomatiz. nar kh-va. 2. M., 1956, pp 16-24

ABSTRACT: A simplified diagram of the TE 3 Diesel electric locomotive is presented. To obtain a hyperbolic external characteristic of the traction generator, which would ensure constant power, an exciter with saturated and nonsaturated poles is used. A tachometer-generator automatic power-control system is used to improve the utilization of the installed Diesel capacity when the temperature of the generator field winding is changing and when the auxiliary lead varies. A current-limiting device of the traction generator secures the constant acceleration of the locomotive. A 1, 350-k 850-rpm MPT 99/77 traction generator is installed on the TE 3 Diesel locomotive. Type EDT 200A traction motors have

Card 1/2

SOV/112-58-2-2337

The Electrical Equipment of Diesel Locomotives

supporting-weight suspension; each motor has a continuous capacity of 205 kw at 500 rpm. An exciter and an auxiliary generator of the Diesel locomotive have the shaft and housing common with the armatures. The exciter has a capacity of 10 kw; the auxiliary generator 8 kw. Auxiliary generator voltage is kept constant (at 75 v) by a type TRN 1 electrodynamic voltage regulator. A brief description of the electrical equipment of the TE 1 and TE 2 locomotives is also presented.

S.M.D.

Card 2/2

A C. mire 1 1 - 4, 1, 15

USSR/Microbiology - Medical and Veterinary.

F-4

Abs Jour

: Ref Zhur - Biologiya, No 7, 1957, 26402

Author

: Kuznetsov, V.G.

Inst Title

: An Efficient Method of Dysentery Phage Diagnosis

through Mass Tests.

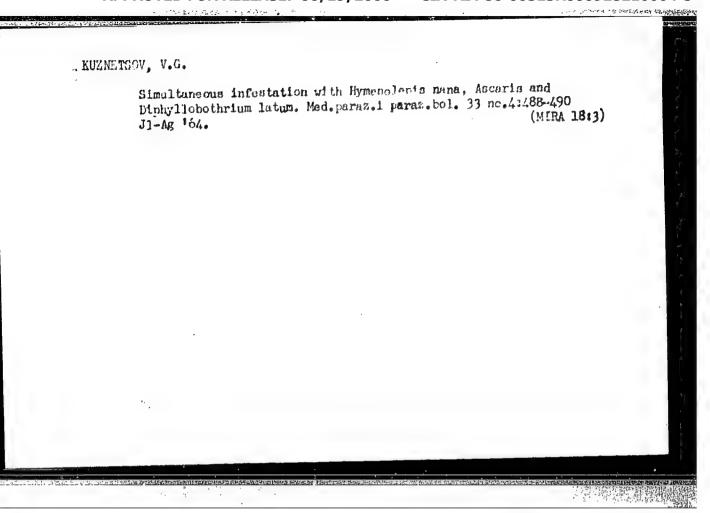
Orig Pub

: Zdravookhr. Tadzhikistana, 1956, No 3, 14-17

Abst

: It is proposed that a polyvalent phage be used for diagnostic purposes, in addition to the usual testing techniques. A suspected colony is implanted on Ressel medium (only traces of water of condensation are permissible in the test-tube). Scratch implantation must cover the entire width of the beveled surface. A loop (2 mm in diameter) is then used to place in the center, a drop of polyvalent phage, which is then smeared upward in the form of a stripe. A "sterile track" arises in 7 - 10 -20 hours on the beveled surface in positive cases.

Card 1/1



ACCESSION NR: AT5013227

UR/2556/65/000/036/0030/0037

AUTHOR: Kuznetsov, V. G. (Moscow)

TITLE: Some analogies in the disposition of lunar craters and terrestrial velcances

SOURCE: Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. Byulleten', no. 36, 1965, 30-37

TOPIC TAGS: lunar topography, lunar crater, lunar crater chain, lunar crater arc, endogenic crater

ABSTRACT: The disposition of curved mountain ranges on the surface of the moon, as described by M. M. Shemyakin (Byull. VAGO, 1962, no. 30(37) and Priroda, 1962, no. 2) has been made the subject of a study comparing these ranges and their craters with 16 island arcs on earth, especially those in and on the periphery of the Pacific Ocean (Kuriles, Japanese Islands, Java, etc.). Topographic and geomorphological comparisons included the curvature and lengths of the arcs, the disposition and spacing of craters along the arcs, as well as crater areas, elevations, and symmetry. The similarity between the disposition and topography of the terrestrial and lunar arcs is clear enough to postulate an endogenic origin for the lunar craters, and more detailed studies are recommended. Orig. art. has: 7 figures and 1 table.

Card 1/1

- 8 (4/16) -

17.D PRESS, Vol.4, No.16, 23 Jul65,

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004-5

KUTHETEOV, V.C.; PAHAMAYEV, I.V.; SHEIRT, M.Ya.

Interaction of germanium doixide with the exider f missinum, iron, silicon, calcium, and magnenium on heating. Thur. neorg. khim. 9 no.8:1934-1938 Ag 164.

(KIRA 17:11)

KUZNETSOV, V.G.

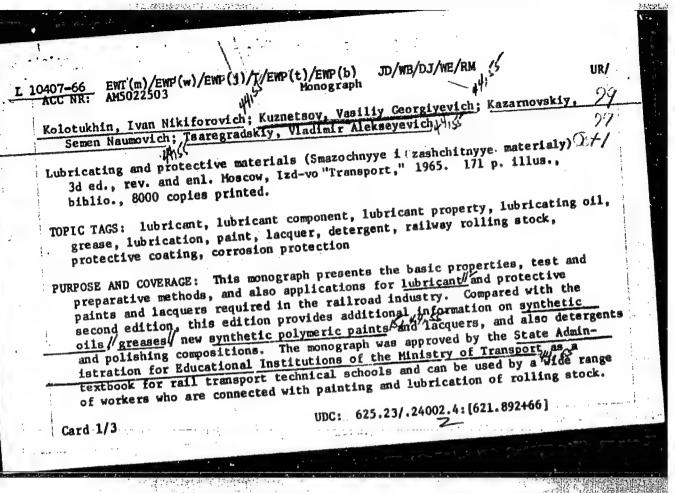
Special facilities and methods for research on enterobiasis in laboratory practice. Lab. delo 10 no.4:229-233 '64. (MIRA 17:5)

KUZNETSOV, V.G.

Method for a mass check of the population for enterobiosis. Zdrav. Tadzh. 3 no.1:22-26 Ja-F '56. (MIRA 12:7)

1. Iz kafedry biologii (zav. - dotsent A. I. Shchurinkova) Stalinabadakogo Gosudaratvennogo meditsinakogo instituta im. Abuali-ibn-Sino (dir. - chlen-korrespondent AN Tadahikakoy SSR Ya. A. Rakhimov) i san. epid. laboratorii SEL (nach. - B.G. Konopkin).

(OXYURIASIS)



10407-66 ACC NR:	АМ5022503	:
TABLE OF	CONTENTS [abridged]:	2
,	tion 3	
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Ch. II.	Products for preparing lubricants 18	
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Ch. V.	Protective materials, general — 80	
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L 11111-66 EAT(m)/EPF(c)/ETC/EPF(n)-2/ENG(m)/ENP(j)/ENA(h)/ENA(1) RM ACCESSION NR: AT5023157 UR/2892/65/000/004/0102/0116 AUTHOR: Afanas'yev, V. P.; Biskupchuk, A. H.; Dudkin, Kuznetsov, V. G.; Litvinova, E. G.; Smirennyy, Kovalev. TITLE: Experimental data on the shielding properties of materials with regard to high energy protons SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Voprosy dozimetrii i zashchity TOPIC TAGS: radiation shielding, proton beam, polyethylene, lead, aluminum, radia-ABSTRACT: Experiments on shielding against high-energy protons were conducted on the OIYaI synchrocyclotron in Dubno. The total absorbed tissue dose $Q(\delta)$ was measured in a thin layer of a detector placed parallel to the shielding plane. The dose attenuation and accumulation factor was determined from measurements of $Q(\delta)$ beyond a shielding screen of thickness 6: Card 1/5

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ACCESSION NR: AT5023157

In all cases, the values of $Q(\delta)$ were normalized in conformity with the monitor readings. The experimental set-up is shown in fig. 1 of the Enclosure. The proton beam from absorber 1 passes through collimator 2 and is deflected by magnet 3 to collimator 4, thus producing a highly pure monochromatic beam of energy. The beam then passes through collimator 5 and ionization chamber M, and impinges direct ly (normal to the surface) on a layer of shielding material immediately adjacent to detector D. The detector was a flat ten-channel ionization chamber filled with a gas mixture (35% He + 65% Ar) which is capable of measuring the dose in tissue rads for energies of 1-660 Mev. The dimensions of the chamber were 500 × 300 mm. The characteristics of the materials used in the experiments are shown in table 1 of the Enclosure. Curves are given for the dose accumulation and attenuation factor for a wide beam of protons as a function of shield thickness for various materials at various beam energies. The curves show good agreement with theoretical calculations. Curves are also given for the mean tissue dose in a flat phantom as a function of the incident energy of protons in the absence of a shield. The curves agree quite well with theoretical calculations. The mean tissue dose \overline{D}_i for a flat phantom with 6 = 30 g/cm² is found behind a polyethylene shield at proton incident energies of 126, 260, 415 and 660 Mev. The maximum mean tissue dose for a thickness of 20 g/cm² is at a proton energy of 260 Mev, while at greater

L 1444-66

ACCESSION NR: AT5023157

thicknesses, the maximum comes at 415 Mev. The mean tissue dose for 415-Mev protons remains practically unchanged up to a thickness of 50-60 g/cm² of polyethylene. The 660-Mev proton dose is reduced beyond this thickness by a factor of only 2, while the dose is practically zero at a thickness of 15 g/cm² for 126 Mev, and the same is true at a thickness of 40 g/cm² for 260-Mev protons. The attenuation curves for the various materials are practically identical. Thus an equivalent thickness of any of the materials studied may be substituted at proton energies of mean tissue dose as a function of shielding thickness for various materials at energies of 126 and 260 Mev. It is found that for a proton energy of 260 Mev, consideration must be given to beam attenuation through inelastic interaction in the sideration has not been verified for proton energies greater than 260 Mev and less than 126 Mev. Orig. art. has: 12 figures, 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 02

NO REF SOV: 006

OTHER: 007

SUB CODE: NP

ATD PRESS: 4/00

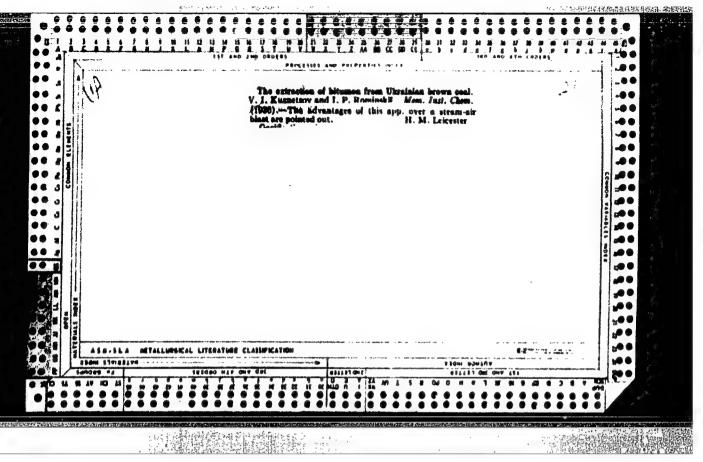
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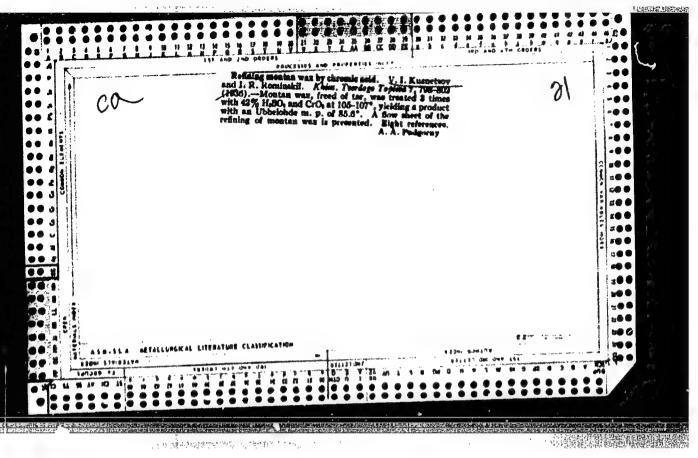
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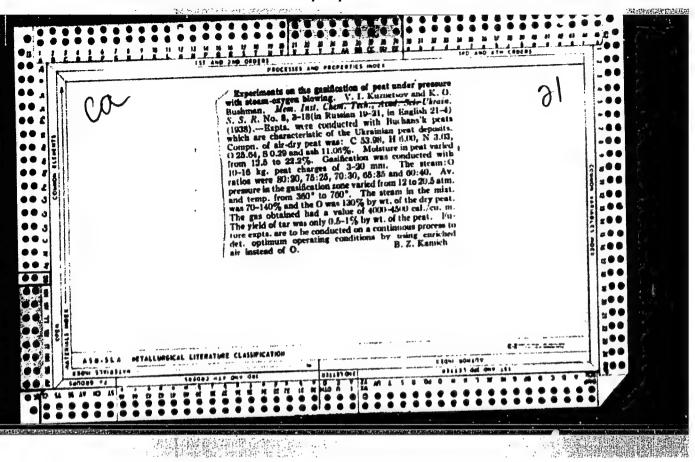
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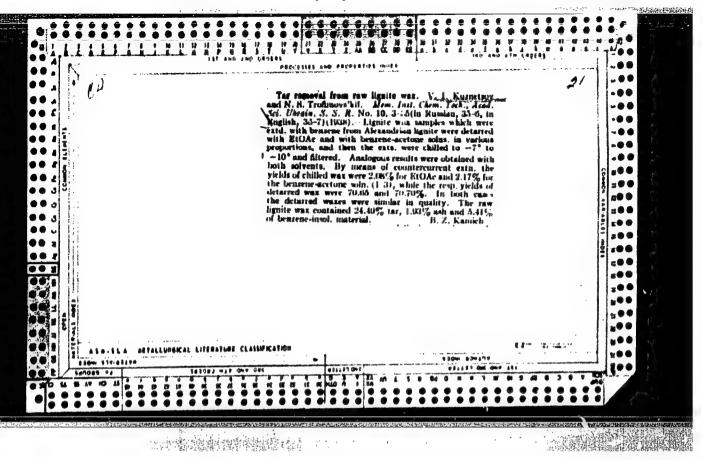
SKAVINSKIY, Yu.V.; ZAKHAROV, N.I.; BYCHKOVA, A.I.; KUZNETSCV, V.G.

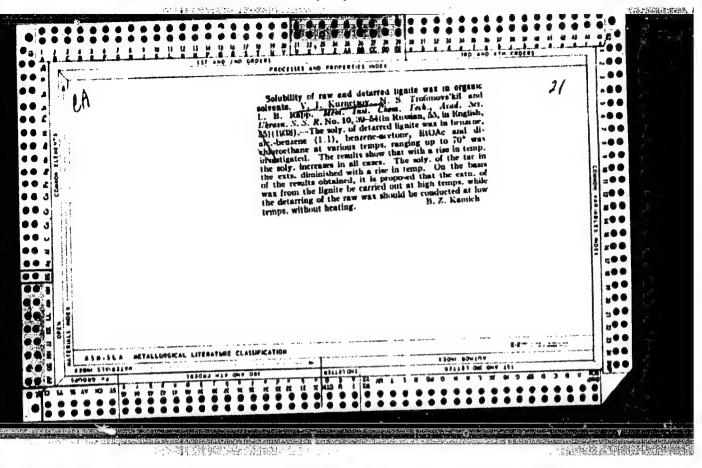
Toxoplasmosis in the Far North. Toxoplasmosis in Taymyr National Area of Krasnoyarsk Territory. Trudy TSTU 80:30-32 165. (MIRA 18:11)

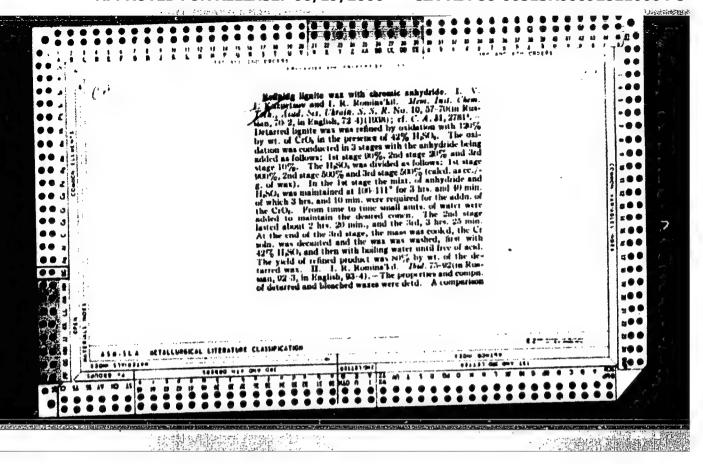


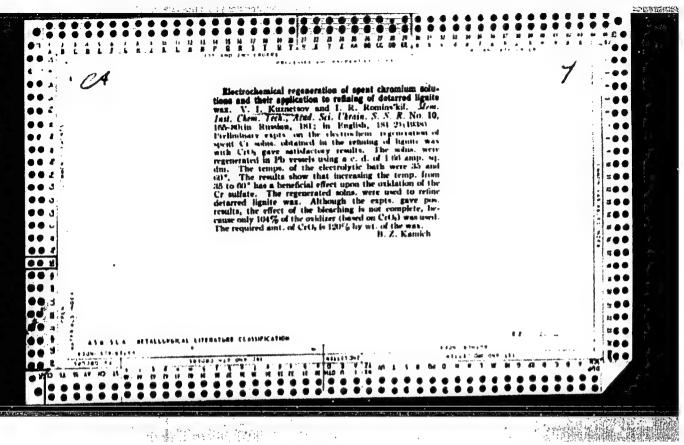






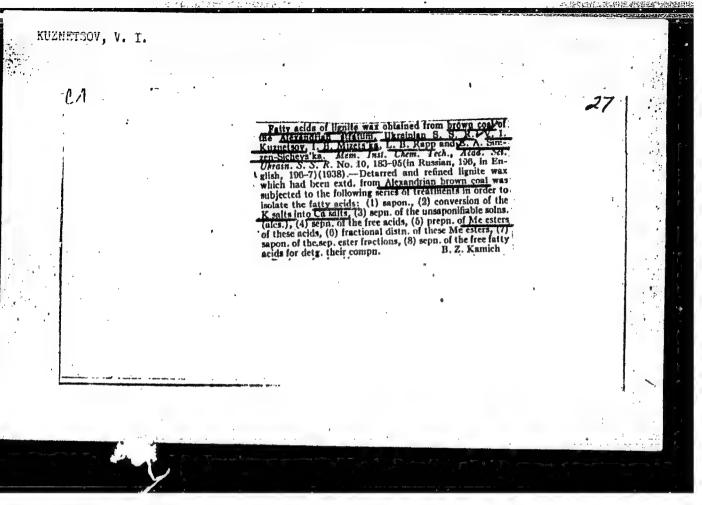


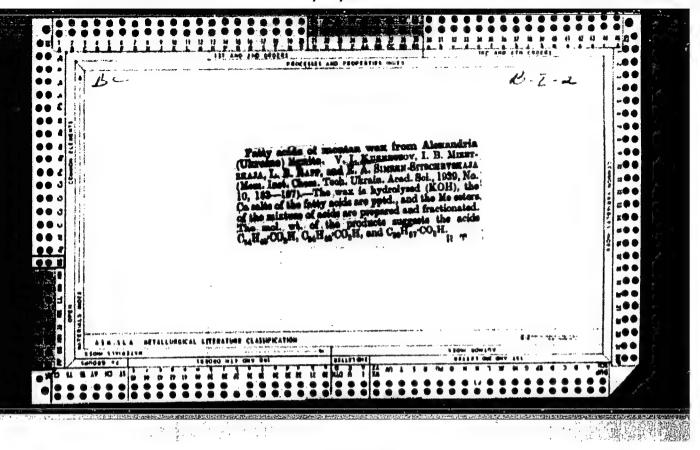




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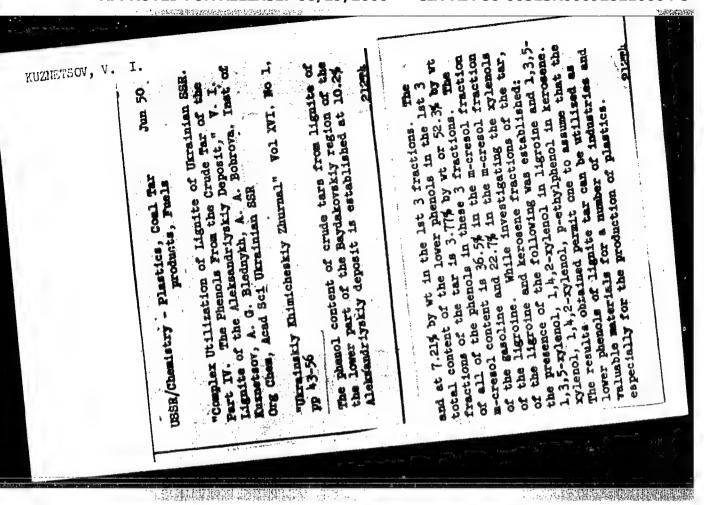
KUZNETSOV, V. I. "Complex utilization of the brown coals of the Ukramian SSR," Report 1, Ukr. khim. zhurnal, Vol. XV, Issue 1, 1919, p. 3-10, - Bibliog; ll, items

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949)

KUZNETSOV, V. I.,

Kuznetsov, V. I., Govorova, R. P. and Shilov, S. V. "Complex utilization of the brown coal of the Ukranian SSR," Report 2, Ukr. khim. zhurnal, Vol. XV, Issue 1, 1947, p. 11-24

SO: U-5241, 17 December 1953, (Letojds 'Zhurmal 'nykh Statey, No. 26, 1919)



KUZNETSOV, V. I.

(3)

Chemical Abst. Vol. 43 No. 8 Apr. 25, 1954 Fuels and Carbon matica Products chose very rock for 10, 35, 552; about in them. About. 1954, vol. 48, 4000). The paraffin fraction of interiols extracted from brown coal by Childwight conducted sociated by anothing social 25% of the oil content on the returns from the crude peraffin. In periffection by adsorbents such as bentenite in stilling so to 10 to 10 to 25, of the oil content on the return from the crude peraffin. In periffection by adsorbents such as bentenite in stilling so to 10. The periffic in a periffic in 25-55 yield, freezing point to 10 to 10.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928210004

Euznetsov, V. I.

USSR/Chemistry - Low Temp Coking; Lignite Sep/Oct 53

"Complex Utilization of Brown Coals of the Ukrainian SSR. 7. Investigation of the Composition of Tar Fractions Obtained by Low Temposition of Tar Fractions Obtained by Low Temporature Coking of Brown Coal," N. M. Karavayev, Perature Coking of Brown Coal," N. M. Karavayev, V. I. Kuznetsov, R. P. Govorova, Inst of Heat Power Engng, Acad Sci Uk SSR

Ukrain Khim Zhur, Vol 19, No 5, pp 556-561.

Purification of the ligroin-kerosene and paraffin fractions is best carried out by selective solvent

27116

extraction. The furfural used as a solvent can be recovered almost completely, and the material extracted applied in the [used] rubber recovery industry.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

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USSR	VIII. RIMOVAL OF NEUTRAL DILE FROM FIDENCIATES DURING PRODUCTION OF FRIHAMY TAR FROM BROWN COALS. Exercisor, V.I. and blockyth, A.C. (Ukr. Khim. 2h. (Ukr. Chem. J.), 1955, vol. 19. (6), 683-686; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Roscon) 1954; (18), 42120). Thenolates were obtained by treating a wide fraction of primary tar, boiling at 170 to 312°C, with a 10% solution of caustic sode. The following methods of removing the neutral cils are described: extraction with other, with between, dilution with water and blowing off with superheated steem. The last method was the best and removed 90.4% of the neutral cils.	
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KUZNETSOV V.I.

US 3R/ Chemiatry - Chemical technology

Card 1/2

Pub. 116 - 23/25

"Authors"

Kuznetsov, V. I.; Govorova, R. P.; Livyy, G. V.; and Landa, I. M.

fitle Use of furfurole

Use of furfurole extracts of ligroin-kerosene fractions of primary

lignite tar for reclaiming of rubber

Periodical :

Ukr. khim. zhur. 21/1, 127-131, 1955

Abstract

Lignite ter refining wastes and especially furfurole extracts of ligroin-kerosene fractions were investigated to determine their applicability as plasticizers for rubber reclamation. It was found that the ligroin-kerosene extract is an active swelling agent for synthetic rubber. Even though the extract cannot be used in pure form for the reclamation of rubber it is, however, well applicable as a diluent of solid plasticizers which makes it possible to obtain reclaimed rubber with high physico-mechanical

Institution

Acad. of So., Ukr-SSR, Heat Energy Institute. The Rubber Reclaiming Plant,

Kiev.

Submitted .

February 20, 1955

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

Periodical: Ukr. khim. zhur. 21/1, 127-131, 1955

Card 2/2: Pub. 116 - 23/25

Abstract: properties. The best results were obtained during the application of solid plasticizers of the colophony, commarone resin types. Four USSR references (1938-1953). Tables; graphs.

USSR/Chemistry - Chemical technology

Card 1/1 Pub. 116 - 27/30

Authors Kuznetsov, V. I., and Bobrova, A. A.

Title Complex utilization of brown coal in Ukr. SSR. Part 9. Extraction of brown coal for the purpose of separating mineral wax

Pariodical : Ukr. khim. zhur. 21/3, 416-420, June 1955

Abstract

The extraction of bituminous brown coal was investigated to determine the effect of various factors: grain size and moisture of coal, age and origin of the coal, preliminary thermal and chemical processing, pressure, type of machines, etc., on the yield and quality of the mineral wax separated from the coal. Analysis of results obtained is presented. Eleven references: 10 USSR and 1 German (1929-1953). Tables.

Institution: Acad. of Sc., Ukr. SSR., Heat Power Engin. Inst.

Submitted : February 22, 1955

KUZNETSOV, SV.I.

USSR Chemical Technology. Chemical Products

I-15

and Their Application

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31838

Author : Kuznetsov V. I., Fadeicheva A. N.

Title : Composite Utilization of Brown Coal of Ukrainian

SSR. X. Characteristics of Primary Tar Produced in Shaft Furnaces from Bituminous Brown Coal of

Ukrainian SSR

Orig Pub: Ukr. khim. zh., 1955, 21, No 4, 522-526

Abstract: Low-temperature carbonization of bituminous

brown coal from the Aleksandriyskiy deposit (Ukraine) was carried out under laboratory con-

Card 1/3

USSR /Chemical Technology. Chemical Products and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31838

ditions, in a revolving retort, and in industrial shaft furnaces. Yield of tar, on the basis of dry coal, amounts to 13.7%; it contains 9.4% phenols (6.6% liquid), 12.6% paraffins and 16.3% silica-gel tars. The neutral, hydrocarbon portion, which constitutes 51.8% of the tar, contains 5.9% of 95-200° gasoline fraction, 6.3% 200-230° fraction, 19.5% 230-290° fraction, 48.3% 290-353° fraction and 17.7% pitch. About 44% of the phenols are low boiling. On the basis of the tar, the phenol fraction amounts to 0.59%, the cresol fraction -- 1.83% and the

Card 2/3

USSR /Chemical Technology. Chemical Products and Their Application

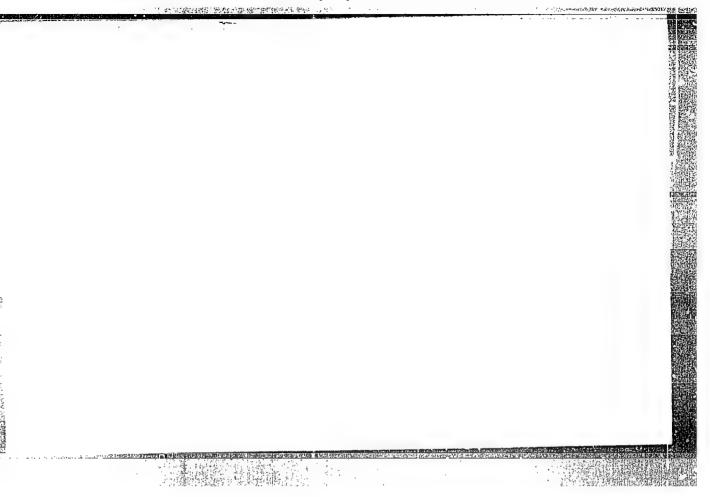
T-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31838

xylenol fraction -- 1.68%. Part IX see RZhKhim, 1956, 48055.

Card 3/3



KUZ NETSOV, V.I.

USSR/ Chemistry - Solid fuels

Card 1/1 Pub. 116 - 25/29

Authors : Kuznetsov, V. I., and Bobrova, A. A.

Title Complex utilization of brown coal in the Ukr. SSR. Part 12. Semicoking of

extracted brown coal

Periodical : Ukr. khim. zhur. 21/6, 800-803, Dec 1955

Abstract : Experiments showed that semicoking of extracted bituminous brown coal lead to a reduction in the primary tar yield and a small reduction in the yield of

pyrogenetic water as compared with the yield of these products from basic pyrogenetic water as compared with the yield of these products from basic pyrogenetic water as compared with the yield of these products from basic pyrogenetic. The reasons for the change in properties and composition of primary coal tars originating as result of separating the bitumena from the coal, are explained. Tars of extracted coal were found to contain considerable amounts of phenols and other liquid hydrocarbons. Three USSR references (1919-1952).

Table.

Institution : Acad. of Sc., Ukr. SSR, Inst. of Heat Power Engineering

Submitted : March 18, 1955

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928210004-5

KUZNETSOU V.I.
USSR/ Chemistry - Solid fuels

Card 1/1

Pub. 116 - 26/29

Authors

Kuznetsov, V. I.; Govorova, R. P.; Fadeycheva, A. G.; Gigel', T. B.; and

Title

* Complex utilization of brown coal in the Ukr. SSR. Part 13, Tars from semicoking of smut coal with the solid heat carrier - semicoke

Periodical

! Ukr. khim. zhur. 21/6, 804-809, Dec 1955

Abstract

Tars obtained by semicoking of brown coal with the solid heat-carrier (semicoke) were found to offer a higher yield of benzene and lower yield of paraffin fractions as compared with tar obtained during the semicoking of the very same coal with a gaseous heat carrier. The primary decomposition products during the semicoking of brown coal with a solid heat carrier - semicoke - submit to cracking to a greater extent than during semicoking with a gaseous heat carrier. The increase in fractions in tars of unsaturated compounds was found to be due to cracking. The phenols obtained from such fractions offer a somewhat lower yield of phenol-cresol fractions; and the paraffin yield is much lower. Tables; graph.

Institution: Acad. of Sc., Ukr. SSR, Inst. of Heat Power Engineering, Lab. for Chem. Proc.

Submitted: June 17, 1955

V VLAGEMEN TUNKER TO

TOLUBINSKIY, Vsevolod Ivanovich; SHCHMGOLMV, German Mikhaylovich; RABINOVICH, Mikhail Iosifovich; KUZNITSQV, Vladimir Ivanovich; TOLUBINSKIY, V.I., redaktor; TITKOV, B.S., redaktor izdatel stva; SKLYAROVA, V.Ya., khudoshestvennyy i tekhnicheskiy redaktor

[Use of local fuels for industrial power engineering] Energotekhnolo-

[Use of local fuels for industrial power engineering] Energotekhnologicheskoe ispol'zovanie mestnykh topliv. Pod obshchei red. V.I. Tolubinskogo. Kiev, Izd-vo Akad. nauk USSR, 1956. 128 p. (MIRA 10:4) (Fuel) (Power engineering)

